

TUMELO SEGALE

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PROFESSIONAL SUMMARY

Information Technology graduate (Software Development, 2025) with practical full-stack development experience across Java/Spring Boot backends, React/JavaScript frontends, and live production deployments for clients. Experienced building database-driven systems with authentication, REST APIs, and payment gateway integration. Strong problem-solving approach, a customer-focused mindset, and a commitment to code quality - ready to contribute independently to software delivery in an agile team environment.

TECHNICAL SKILLS

Programming Languages: Java, Python

Backend Development: Spring Boot, REST APIs, JPA, Hibernate, Maven

Frontend Development: HTML5, CSS3, JavaScript, React

Databases and Tools: MySQL, JDBC, Git, GitHub, VS Code, IntelliJ IDEA

Methodologies: Agile Development, Scrum practices, CRUD architecture, Test awareness, Responsive Design, Progressive Web Apps (PWA)

PROJECT EXPERIENCE

Dr Jacob Segale - Full-Stack Web Platform - Client Project (2025-2026)

- Architected and delivered a production full-stack application for a client using Java/Spring Boot backend with secure admin authentication and content management dashboard.
- Integrated Paystack payment gateway, resulting in a 20% increase in online book sales for the client.
- Designed and maintained database-driven dynamic content delivery with full CRUD operations.
- Optimized performance and implemented fully responsive UI across all device types - demonstrating end-to-end system ownership.

SaleStation - Point of Sale System - Personal Project (2026)

- Architected and developed a multi-store POS platform covering product management, inventory control, sales processing, cashier workflows, reporting and subscription management.
- Designed a structured data model for businesses, users, roles, stores, products, inventory, transactions and audit records, supporting relationships across multiple business locations.
- Implemented role-based authentication and authorization to separate administrative and cashier capabilities and protect business operations.
- Built transaction workflows that validate product availability, calculate totals and discounts, process payments, update inventory and maintain transaction records.
- Implemented **stock-level monitoring, low-stock alerts and out-of-stock controls** to maintain inventory accuracy during sales.

JobFit - Privacy-First ATS CV Scorer (PWA) - Personal Project (2026)

- Designed and built a Progressive Web App (PWA) - a fully client-side ATS analysis tool with offline support, installability, and a service worker caching strategy; all CV parsing and scoring run locally in the browser with zero server-side data transmission.
- Implemented in-browser file extraction using PDF.js and Mammoth, Porter stemmer for keyword matching, and heuristic scoring of formatting, structure, and date patterns.
- Integrated Cloudflare Worker and KV storage for an anonymous, privacy-respecting usage counter; deployed as an installable PWA to a live public URL with a web manifest and service worker for full offline functionality.
- Demonstrates end-to-end ownership: architecture decisions, algorithm design, security considerations, and production deployment.

EDUCATION

National Senior Certificate (Matric) - Meridian Rustenburg (2021)

Diploma in Information Technology (Software Development) - Vaal University of Technology (2025)

CERTIFICATIONS AND PARTICIPATION

- FNB App Academy - Full Stack Development Certificate (2025)
- CCNA: Introduction to Networks - Cisco (2023)
- Participant - Vaal University of Technology Annual Hackathon (2025)

ACHIEVEMENTS AND LEADERSHIP

- 3rd place nationally - Enactus South Africa National Competition 2025 (26 universities competed) - contributed technology-driven solutions for social impact.
- Represented Vaal University of Technology at the 1st South African-hosted Hult Prize Nationals 2025.
- Enactus Member, Vaal University of Technology (2024-2025).
- Representative Council of Learners (RCL) - Meridian Rustenburg (2021).